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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

		gent's file reference	FOR FURTHER ACTIO		See Notification	on of Transmittel of laters allowed		
			. On I On HER ACTIO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/IB 03/05137			International filing date (day)	national filing date (day/month/year)		Priority date (day/month/year)		
Internation	onal Pa	tent Classification (IBC) or he	oth national classification and II			29.11.2002		
Applicant INTERI	t NATIC is interity	ONAL BUSINESS MACI mational preliminary exam and is transmitted to the a	HINES CORPORATION ination report has been pre applicant according to Articl	et a	ed by this Inte sheet.	rnational Preliminary Examining		
The	(see	n amended and are the ba Rule 70.16 and Section 6 nexes consist of a total of	607 of the Administrative In	s of eets truc	the descriptio containing re tions under th	on, claims and/or drawings which have octifications made before this Authority ne PCT).		
3. This	s repor	t contains indications relat	ting to the following items:					
l	☒	Basis of the opinion						
H		Priority						
111		Non-establishment of opi	inion with regard to novelty,	inve	ntive sten an	d industrial applicability.		
IV		Lack of drifty of littlention						
V	☒	Reasoned statement und citations and explanations	ler Rule 66.2(a)(ii) with rega s supporting such statemen	rd to	novelty, inve	entive step or industrial applicability;		
VI		Certain documents cited						
VII		Certain defects in the inte	ernational application					
VIII		Certain observations on t	he international application					
ate of subr	mission	of the demand	Data o					
			Date o	con	pletion of this	report		
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	l.	Basis	of the	repor	ŧ
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	escription, Pages	·
	1-	16	as originally filed
	CI	aims, Numbers	·
	1-	18	as originally filed
	Dr	awings, Sheets	
		2-2/2	as originally filed
2.	Wi lan	th regard to the lang guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
			vailable or furnished to this Authority in the following language: , which is:
			ranslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	olication of the international application (under Rule 48.3(b)).
		the language of a t Rule 55.2 and/or 55	ranslation furnished for the purposes of international walls.
3.	Wit inte	h regard to any nuc l ernational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
			ernational application in written form.
		filed together with the	ne international application in computer readable form.
			ntly to this Authority in written form.
			ntly to this Authority in computer readable form.
			the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence iished.
•	The	amendments have i	esulted in the cancellation of:
į		the description,	pages:
- 1		the claims,	Nos.:
(the drawings,	sheets:

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-18

No: Claims

Inventive step (IS) Yes: Claims 1-18

No: Claims

Industrial applicability (IA) Yes: Claims 1-18

No: Claims

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: US 2002/133621 A1 (LEIBOWITZ NATHANIEL ET AL) 19 September 2002 (2002-09-19)
- D2: WO 01/75652 A (CT SPAN COMM CORP) 11 October 2001 (2001-10-11)
- D3: US 2002/062336 A1 (BJORNER NIKOLAJ S ET AL) 23 May 2002 (2002-05-23)
- D4: WO 02/15035 A (NAPSTER INC) 21 February 2002 (2002-02-21)
- 1. D1, which is regarded as closest prior art, discloses:
- a) method of providing index server support to a file sharing application, see e.g. abstract; queries to index servers are intercepted and answered with cached responses;
- b) handling requests for investigating a hierarchical structure of index servers in a network, including intercepting an investigation request that is directed to a remote index server; see abstract; fig. 1; queries for searched files are sent into the p2p-network comprising an hierarchy of index servers (ref. 52) and intercepted (i.e. handled) by the index servers.
- 2. The subject-matter of claim 1 differs from the disclosure of D1 in that the originator of the investigation request is notified of the intercepting index server identity.
- 3. The subject-matter of claim 1 is therefore new (Article 33(2) PCT).
- 4. The problem to be solved by the present invention may be regarded as 'how to optimize the retrieval of data files via an file sharing application?'.
- 5. The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The solution of claim 1 of notifying the requesting client of the identity of the intercepting index server is not disclosed in D1. In the opposite, D1 discloses that the acceleration server of D1 act as a transparent proxy server, see D1, p. 5, paragraph 66. Therefore, the identity of the acceleration server is unknown to the requesting

client when receiving the cached response of the acceleration server which serves simply as proxy cache for queries and responses which is an alternative solution for

the problem posed.

D2 provides also a solution to optimize the data retrieval via an file sharing application. This is achieved by assigning an index server to file sharing clients which are in topologically close. But this is achieved via a static solution, which is based on the so called 'media exchange server assignment table', see e.g. D2, p. 4, l. 29 -31. No dynamic discovery of an index server is performed.

D3 uses a server system called registrar registering file sharing clients to so-called RNS servers, which provide the indexing information to the clients. The registrar must be known to the client, see e.g. D3, p. 2, paragraph 31 to p.3, paragraph 33. Therefore, no dynamic discovery of an index server is performed.

D4 uses a so-called host monitor to monitor the peer-to -peer network. Based on the collect data, hosts (i.e. clients of the p2p-network) are ranked according to their suitability to serve as entry points into the p2p-network (e.g. Gnutella). When entering, clients query the host monitor for a suitable host for starting a query. Again, no dynamic discovery of an index server according to claim 1 is performed.

The subject-matter of claim 1 is therefore inventive (Article 33(3) PCT).

- 6. Claims 2-12 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
- 7. Independent claims 15 (view of requesting client) and 18 (mixed client and server view) correspond to independent claim 1 (view of intercepting index server). Therefore, claims 15 and 18 and dependent claims 16 and 17 also meet the requirements of the PCT with respect to novelty and inventive step.

Further Remarks

1. Essential features are missing in claims 1, 15 and 18 (Article 6 PCT taken in combination with Rule 6.3(b) PCT). In claim 15 the concept of intercepting the investigation request is missing, whereas this concept is correctly contained in claims 1

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and 18. Furthermore, the step of intercepting is performed by a router connected to the index server, see description p. 10, l. 6-15. Otherwise, it would be unclear how messages could be intercepted by the index server. This feature is missing in claims 1, 15 and 18.